

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A power semiconductor element, comprising:

a semiconductor substrate doped with doping atoms of a first conductivity type;

an emitter region doped with doping atoms of a second conductivity type;

said emitter region and said ~~semiconductor~~semiconductor substrate having mutually opposite conductivities;

a stop zone in front of the emitter region for preventing passage of an electric field to said emitter region at a reverse voltage;

said emitter region and said stop zone having mutually opposite conductivities; and

said stop zone having atoms of a doping substance of said first conductivity type determining a conductivity of said

stop zone, said atoms of said doping substance having at least one energy level within the band gap of the semiconductor and at least 200 meV away from both a conduction band and a valence band of the semiconductor wherein a number of effective doping atoms generated in the stop zone changes in dependence on whether the power semiconductor element is in a blocking operation or in a conducting operation.

Claim 2 (previously presented). The power semiconductor element according to claim 1, wherein said atoms in said stop zone include sulfur atoms.

Claim 3 (previously presented). The power semiconductor element according to claim 1, wherein said atoms in said stop zone include selenium atoms.

Claim 4 (currently amended). A power semiconductor element, comprising:

a semiconductor substrate doped with doping atoms of a first conductivity type;

an emitter region doped with doping atoms of a second conductivity type;

said emitter region and said ~~semiconductor~~semiconductor
substrate having mutually opposite conductivities;

a stop zone in front of the emitter for preventing passage of
an electric field to said emitter region at a reverse voltage;

said emitter region and said stop zone having mutually
opposite conductivities; and

said stop zone containing foreign atoms selected from the
group consisting of sulfur and selenium with at least one
energy level within the band gap of the semiconductor and
spaced at least 200 meV from a conduction band and a valence
band of the semiconductor wherein a number of effective doping
atoms generated in the stop zone changes in dependence on
whether the power semiconductor element is in a blocking
operation or in a conducting operation.